

MIAMI METROZOO MEDICAL RECORD

ANIMAL ELEPHANT, AFRICAN DATE OF ACQUISITION OR BIRTH 1975

ACCES.NO. 270 stbk#146 SEX 0.1 HOUSE NAME MABEL

06/04/03 WT=7990 lbs. SMM
 09/16/03 WT=8200 lbs.
 12/26/03 WT=8260 lbs.
 05/07/04 Trying to meet AZA demands that each elephant has baseline foot radiographs on file: borrowed portable xray machine from Dr. Templeton for part of day. XRAY/oblique plantar-dorsal views of each digit (corresponding to toenails) on both hindfeet (6 total) [kvp=48, mas=1.6] COMT/Mabel a too nervous to allow front feet to be done today, but good for hindfeet (in squeeze)-behaved; stopped with these for now, will plan to do front feet at another date, after a bit more conditioning to get her ready.
 - CLM
 05/21/04 Now Mabel understands what we want her to do with her front feet and she's eager to please. XRAY/oblique dorsal-palmar views of each digit on both forefeet (8 toes total) [kvp=48 mas=1.6 for all but 4th digits, which needed deeper penetration: kvp=52-56]. - CLM
 06/08/04 ANNUAL TB TESTING: PROC/collected 40-50ml of "trunk wash" sample (after overnight water withholding on 6/6 and 6/7 and two hour withholding on 6/8; 60ml sterile saline were placed in each trunk) for mycobacterial culture on each of three consecutive mornings (6/6, 6/7 & today 6/8); all samples were immediately frozen, and shipped overnight on ice to NVSL, as per USDA-mandated-protocol. All elephants were well-behaved for collection routine. BLOOD/CBC, chem. screen, save serum; blood taken for annual check. SMM
 06/09/04 Dr. Dennis Schmitt at Metrozoo today to perform ultrasonographic assessments of each elephant's reproductive tract. Mabel has a normal reproductive tract (including ovaries) as far as can be detected. Written report will be added to her record when received. - CLM
 06/17/04 WT=8414 lbs.
 07/14/04 All elephants due for tetanus booster. VAX/tetanus toxoid 2.0ml IM (left caudal thigh). - CLM
 11/24/04 Has hand-sized soft swelling in left caudal thigh, not warm but somewhat sensitive to touch; keepers report that it was there yesterday at closeout but not before that. Elephants were rough-housing in the pool yesterday - may be a tusk-jab site. Watch only for now. - CLM
 01/17/05 Keepers noticed stiff on RF leg this morning when let out on paddock. Observed her on paddock: reluctant to move, and when does, walks stiffly on RF w/o flexing joints. Watch for now... possibly from cold temps. SMM
 01/18/05 Keepers report Mabel walking better by last night; did not observe any limping today. SMM
 01/26/05 WT=8150 lbs.
 02/11/05 Apparently shattered the very tip of one of her tusks overnight in the barn (cold spell, everybody locked in overnight) - keepers picked up a few of the shards (sent to USDI, Forensics Lab) and report that there are no longitudinal cracks extending up toward

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- the sulcus, and that the pulp canal is not exposed. Should not present a problem for now, unless this happens again. - CLM
- 06/07/05 Annual TB testing routine starts today. BLOOD/CBC, chem screen; serum saved for routine hormonal monitoring. COMT/Mabel appears to be in good health and condition right now. - CLM
- 06/09/05 ANNUAL TB TESTING: PROC/collected 40-50ml (60ml saline total placed down into trunk) of "trunk wash" sample (after overnight water withholding) for mycobacterial culture on each of three consecutive mornings (6/7, 6/8, & today) - frozen samples from 6/7 & 8, and partially frozen sample from 6/9 sent overnight to NVSL as per USDA-mandated-protocol (well-behaved for collection routine). - CLM
- 09/08/05 Serum samples sent from each elephant to Disney for TB-testing by new research methods: MAPIA and RT - all negative on all elephants, per Michelle Miller. - CLM
- 01/14/06 WT=8396 lbs.
- 06/14/06 PROC/collected 40-50ml (60ml saline total placed down into trunk) of "trunk wash" sample (after a few hours of water withholding) for mycobacterial culture on each of three consecutive mornings (6/12, 6/13, & today) - frozen samples from 6/12 & 13, and partially frozen sample from 6/14 sent overnight to NVSL as per USDA-mandated-protocol (very well-behaved with conditioned trunk-wash procedures). BLOOD/CBC, chem screen sent to lab on 6/13, along with routine blood collection for hormone assays; serum saved for possible MAPIA testing again, in the future. Bloodwork results today are unremarkable; Mabel has not had any medical problems or other complaints this year. - CLM
- 07/26/06 Keepers noted a few small nodules at the mucocutaneous border of Mabel's vagina a few weeks ago. OBS/small cluster of 2-5mm diameter "skin tags" just inside mucosal lining on caudal left side of vagina, and a couple more just a bit deeper than this. COMT/none of these nodules appear to be of any concern in the short run; may be remnants of previous papillomas (see 1998), or a resurgent infection, or just "mucosal tags". Keepers to watch that they do not get substantially larger, but no plan for treatment at this time. - CLM
- 08/19/06 WT=8142 lbs.
- 09/21/06 Have started a new elephant diet regimen and so are taking baseline weights to monitor them. WT=8278 lbs.
- 10/18/06 WT=8212 lbs.
- 11/22/06 WT=8094 lbs.
- 12/18/06 WT=8082 lbs.
- 01/15/07 WT=8270 lbs.
- 03/30/07 Supervisor (Webb) had expressed some concern that Mabel's front legs tremble when she is asked to hold them up - thought she might have some muscle problem. Vets assessed this afternoon: Mabel has symmetric, normal muscle mass over both forelimbs (when compared with other Africans in the barn), her legs do not tremble when she holds them up by voice command only, at a

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distance, but when asked to lift either front foot in the barn she hikes & flexes them extra-high and then the muscles of the hefted leg tremble some as she holds it up; she appears flexible in all joints and has no problems lying down or walking or digging with them - either on command or on her own (she was rolling and playing in the dirt prior to working her in the barn). Mabel is an exciteable girl and is eager to please the keepers - believe this trembling is a mild anxiety effect when she hikes the legs extra high upon command, and that this is part of her personality, not a medical condition. Keepers will watch to be sure this trembling does not get any worse, and that she does not show any other signs of progressing weakness. Overall Mabel appears to be in good condition and no other problems are apparent at this time. - CLM

Medical History Report - Summary for Individual Specimen
MIAMI METROZOO

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

.....2005...

- 26.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
Weight: 3698 Kg (8150 Lb)
- 22.Mar Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 31.May Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 7.Jun Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:10.10 *10³/UL; HCT: 45.0%; BUN:13 MG/DL;
- 26.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 27.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 1.Dec Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN

.....2006...

- 12.Jan Weight: 3809 Kg (8395 Lb)
- 23.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 3.Apr Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 22.May Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 13.Jun Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:9.62 *10³/UL; HCT: 41.0%; BUN:11 MG/DL;
- 25.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 19.Aug Weight: 3694 Kg (8142 Lb)
- 21.Sep Weight: 3756 Kg (8278 Lb)
- 26.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.

Medical History Report - Summary for Individual Specimen
MIAMI METROZOO

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LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

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.....2006....

26.Sep NO PARASITES SEEN

18.Oct Weight: 3726 Kg (8212 Lb)

14.Nov Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN

22.Nov Weight: 3672 Kg (8093 Lb)

18.Dec Weight: 3667 Kg (8082 Lb)

.....2007....

15.Jan Weight: 3752 Kg (8269 Lb)

23.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN

19.Mar Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN

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LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

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Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2005-0091
Date collected: 26.Jan.2005

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 26.Jan.2005

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2005-0397
Date collected: 22.Mar.2005

Collected from:

Group of specimens housed together.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 22.Mar.2005

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

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LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

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Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2005-0883
Date collected: 31.May.2005

Collected from:

Group of specimens housed together.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 31.May.2005

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Clinical Pathology Records - Specimen Report
MIAMI METROZOO

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 3698 Kg on 26.Jan.2005
Manual restraint used.

Date of Collection: 7.Jun.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: U OF MIAMI
Date of Analysis: 8.Jun.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.1		*10 ³ /UL
RED BLOOD CELL COUNT	3.53		*10 ⁶ /UL
HEMOGLOBIN	> 15.7		GM/DL
HEMATOCRIT	> 45		%
MCV	127		fL
MCH	44.5		uug
MCHC	34.9		gm/dL
SEGMENTED NEUTROPHILS	42	(4.242)	% (*10 ³ /UL)
LYMPHOCYTES	27	(2.727)	% (*10 ³ /UL)
MONOCYTES	31	(3.131)	% (*10 ³ /UL)
EOSINOPHILS	0		% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)

Comments >>

in-house PCV=44%

Clinical Pathology Records - Specimen Report
MIAMI METROZOO

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 3698 Kg on 26.Jan.2005
Manual restraint used.

Date of Collection: 7.Jun.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: U OF MIAMI
Date of Analysis: 8.Jun.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	92	MG/DL
BLOOD UREA NITROGEN	13	MG/DL
CREATININE	1.5	MG/DL
BUN/creatinine ratio	8.67	
URIC ACID	<0.2	MG/DL
CALCIUM	11.5	MG/DL
PHOSPHORUS	4.9	MG/DL
calcium/phosphorus ratio	2.35	
SODIUM	132	MEQ/L
POTASSIUM	4.7	MEQ/L
sodium/potassium ratio	28.1	
CHLORIDE >>	97	MEQ/L
anion gap	12.7	
CHOLESTEROL >>	118	MG/DL
TRIGLYCERIDE	56	MG/DL
TOTAL PROTEIN (COLORIMETRY) >	8.4	GM/DL
ALBUMIN (COLORIMETRY) >	4.4	GM/DL
GLOBULIN (COLORIMETRY)	4.0	GM/DL
albumin/globulin ratio	1.10	
ASPARTATE AMINOTRANSFERASE	15	IU/L
ALANINE AMINOTRANSFERASE >>	20	IU/L
TOTAL BILIRUBIN >	0.4	MG/DL
DIRECT BILIRUBIN	0.2	MG/DL
AMYLASE <	318	U/L
ALKALINE PHOSPHATASE	91	IU/L
LACTATE DEHYDROGENASE	1048	IU/L
CREATINE PHOSPHOKINASE	86	IU/L
CARBON DIOXIDE	27	MMOL/L
GAMMA GLUTAMYLTRANSFERASE	9	IU/L

Comments >>

ISIS reference values are for LOXODONTA AFRICANA
Printed on: 2.Apr.2007

Clinical Pathology Records - Specimen Report
MIAMI METROZOO

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LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL
=====

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976
=====

Chemistry >>
Comments >>
 annual PE

=====

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

=====

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2005-1252
Date collected: 26.Jul.2005

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 26.Jul.2005

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2005-1651
Date collected: 27.Sep.2005

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 27.Sep.2005

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

=====

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

=====

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2005-1969
Date collected: 1.Dec.2005

Collected from:

Group of specimens housed together.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 1.Dec.2005

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2006-0112
Date collected: 23.Jan.2006

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 23.Jan.2006

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

=====
LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL
=====

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976
=====

Parasitology Examination:

Submission Data >>
Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2006-0421
Date collected: 3.Apr.2006

Collected from:
From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>
Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 3.Apr.2006
by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Submission Data >>
Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2006-0630
Date collected: 22.May.2006

Collected from:
From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>
Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 22.May.2006
by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Clinical Pathology Records - Specimen Report
MIAMI METROZOO

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 3809 Kg on 12.Jan.2006
Manual restraint used.

Date of Collection: 13.Jun.2006
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: U OF MIAMI
Date of Analysis: 14.Jun.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	9.62		*10 ³ /UL
RED BLOOD CELL COUNT	3.27		*10 ⁶ /UL
HEMOGLOBIN	13.2		GM/DL
HEMATOCRIT	41		%
MCV	125		fL
MCH	< 40.4		uug
MCHC	< 32.2		gm/dL
SEGMENTED NEUTROPHILS	45	(4.329)	% (*10 ³ /UL)
LYMPHOCYTES	43	(4.137)	% (*10 ³ /UL)
MONOCYTES	8	(0.770)	% (*10 ³ /UL)
EOSINOPHILS	4	(0.385)	% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)

Comments >>

in-house PCV=38%

Clinical Pathology Records - Specimen Report
MIAMI METROZOO

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 3809 Kg on 12.Jan.2006
Manual restraint used.

Date of Collection: 13.Jun.2006
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: U OF MIAMI
Date of Analysis: 14.Jun.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	86	MG/DL
BLOOD UREA NITROGEN	11	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	7.86	
URIC ACID	<0.2	MG/DL
CALCIUM	11.0	MG/DL
PHOSPHORUS	5.1	MG/DL
calcium/phosphorus ratio	2.16	
SODIUM	129	MEQ/L
POTASSIUM	4.4	MEQ/L
sodium/potassium ratio	29.3	
CHLORIDE	87	MEQ/L
anion gap	20.4	
CHOLESTEROL	> 89	MG/DL
TRIGLYCERIDE	51	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.3	GM/DL
ALBUMIN (COLORIMETRY)	3.7	GM/DL
GLOBULIN (COLORIMETRY)	4.6	GM/DL
albumin/globulin ratio	0.804	
ASPARTATE AMINOTRANSFERASE	17	IU/L
ALANINE AMINOTRANSFERASE	>> 23	IU/L
TOTAL BILIRUBIN	> 0.4	MG/DL
DIRECT BILIRUBIN	> 0.3	MG/DL
AMYLASE	< 365	U/L
ALKALINE PHOSPHATASE	83	IU/L
LACTATE DEHYDROGENASE	1101	IU/L
CREATINE PHOSPHOKINASE	149	IU/L
CARBON DIOXIDE	26	MMOL/L
GAMMA GLUTAMYLTRANSFERASE	9	IU/L

Comments >>

ISIS reference values are for LOXODONTA AFRICANA
Printed on: 2.Apr.2007

Clinical Pathology Records - Specimen Report
MIAMI METROZOO

=====

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

=====

Chemistry >>
Comments >>
annual PE & TB test

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 270
South African bush elephant	Age: 30Y Est.	Birth: 31.Dec.1976
Name: MABEL		

=====

Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2006-0959
Date collected: 25.Jul.2006

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 25.Jul.2006

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2006-1242
Date collected: 26.Sep.2006

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 26.Sep.2006

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

=====
LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL
=====

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976
=====

Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2006-1494
Date collected: 14.Nov.2006

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 14.Nov.2006

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0126
Date collected: 23.Jan.2007

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 23.Jan.2007

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

=====

LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MABEL

Sex: Female
Age: 30Y Est.

Acc. #: 270
Birth: 31.Dec.1976

=====

Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0373
Date collected: 19.Mar.2007

Collected from:

From an individual specimen.

Enclosure: 52 - Afr

Examination Data >>

Storage: room temperature
Consistency: formed
Gross appearance: Typical

Date examined: 19.Mar.2007

by: JS

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Clinical Pathology Records Report - ISIS/In-House Reference Values
MIAMI METROZOO

Scientific name: *LOXODONTA AFRICANA*
Common Name: African elephant

		ISIS Values			In-House Values				
		Mean	S.D.	(N)	Mean	S.D.	Min.	Max.	(N)
WBC	*10 ³ /UL	10.50	± 2.648	(1544)	12.15	± 3.60	4.000	19.30	(42)
RBC	*10 ⁶ /UL	3.15	± 0.40	(1480)	3.236	± 0.509	1.850	4.080	(41)
HGB	GM/DL	13.7	± 1.6	(1522)	13.54	± 1.71	9.000	17.20	(42)
HCT	%	39.5	± 4.6	(1984)	39.95	± 6.26	25.00	51.00	(39)
MCH	MG/DL	43.6	± 3.0	(1454)	42.26	± 3.82	34.07	56.22	(41)
MCHC	uug	34.7	± 2.0	(1501)	33.55	± 2.48	25.27	41.60	(41)
MCV	fL	125.8	± 8.1	(1466)	126.8	± 9.7	102.9	141.3	(40)
SEGS	*10 ³ /UL	3.146	± 1.695	(1224)	5.371	± 2.199	2.080	10.81	(42)
BANDS	*10 ³ /UL	0.843	± 0.799	(605)	0.266	± 0.328	0.000	1.088	(18)
LYMPHOCYTES	*10 ³ /UL	4.913	± 2.532	(1236)	5.938	± 2.528	1.800	11.91	(42)
MONOCYTES	*10 ³ /UL	1.513	± 1.651	(1175)	0.427	± 0.456	0.000	1.860	(38)
EOSINOPHILS	*10 ³ /UL	0.225	± 0.273	(885)	0.209	± 0.269	0.000	1.134	(37)
BASOPHILS	*10 ³ /UL	0.049	± 0.081	(464)	0.005	± 0.027	0.000	0.148	(31)
NRBC	/100 WBC	0	± 1	(92)	0.000	± 0.000	0.000	0.000	(1)
PLATE. CNT.	*10 ³ /UL	417	± 245	(215)	737.2	± 526.7	177.0	1380	(6)
RETICS	%	0.0	± 0.0	(7)					
GLUCOSE	MG/DL	84	± 15	(1437)	83.41	± 15.31	54.00	122.0	(37)
BUN	MG/DL	10	± 3	(1458)	8.776	± 3.324	3.000	16.00	(41)
CREAT.	MG/DL	1.5	± 0.5	(1405)	1.540	± 0.365	0.800	2.600	(40)
URIC ACID	MG/DL	0.2	± 0.4	(466)	0.196	± 0.068	0.000	0.300	(25)
CA	MG/DL	10.9	± 0.6	(1434)	11.51	± 0.89	9.600	13.90	(41)
PHOS	MG/DL	4.9	± 0.8	(1291)	5.313	± 0.550	3.900	6.500	(40)
NA	MEQ/L	129	± 4	(1353)	131.8	± 6.3	119.0	145.0	(37)
K	MEQ/L	4.8	± 0.5	(1368)	4.801	± 0.474	3.900	6.000	(40)
CL	MEQ/L	88	± 4	(1323)	88.10	± 2.66	82.00	93.00	(40)
IRON	MCG/DL	79	± 42	(54)	79.56	± 43.12	2.000	130.0	(9)
MG	MG/DL	1.97	± 0.75	(98)					
HCO3	MMOL/L	25.1	± 3.6	(44)					
CHOL	MG/DL	68	± 17	(1290)	67.80	± 14.32	32.00	94.00	(41)
TRIG	MG/DL	64	± 31	(1124)	50.33	± 19.72	15.00	95.00	(30)
T. PROT. (C)	GM/DL	7.7	± 0.6	(1261)	8.103	± 0.760	6.300	9.900	(35)
T. PROT. (R)	GM/DL	8.0	± 0.4	(8)					
ALBUMIN (C)	GM/DL	3.6	± 0.4	(1145)	3.824	± 0.436	3.000	5.200	(34)
GLOBULIN (C)	GM/DL	4.1	± 0.5	(1135)	4.203	± 0.480	3.200	5.000	(34)
AST (SGOT)	IU/L	24	± 10	(1398)	20.53	± 7.54	10.00	39.00	(41)
ALT (SGPT)	IU/L	7	± 6	(547)	11.13	± 6.15	0.000	20.00	(41)
T. BILI.	MG/DL	0.2	± 0.1	(1187)	0.250	± 0.126	0.100	0.500	(40)
D. BILI	MG/DL	0.1	± 0.1	(154)	0.141	± 0.091	0.000	0.300	(22)
I. BILI.	MG/DL	0.1	± 0.1	(152)					
AMYLASE	U/L	3075	± 1552	(241)	423.0	± 81.7	294.0	648.0	(23)
ALK. PHOS.	IU/L	128	± 61	(1404)	156.1	± 60.5	78.00	312.0	(41)
LDH	IU/L	988	± 568	(1099)	994.0	± 406.7	157.0	1861	(39)

Clinical Pathology Records Report - ISIS/In-House Reference Values
 MIAMI METROZOO

Scientific name: **LOXODONTA AFRICANA**
 Common Name: **African elephant**

		ISIS Values			In-House Values				
		Mean	S.D.	(N)	Mean	S.D.	Min.	Max.	(N)
CPK	IU/L	256 ±	196	(247)	185.9 ±	114.4	69.00	509.0	(26)
OSMOLARITY	MOSMOL/L	259 ±	4	(689)					
ALPHA GLOB.	MG/DL	0.7 ±	0.0	(1)					
ALPHA-1 GLOB	GM/DL	0.7 ±	0.2	(8)	0.930 ±	0.202	0.730	1.190	(4)
ALPHA-2 GLOB	GM/DL	1.0 ±	0.3	(8)	1.008 ±	0.067	0.920	1.080	(4)
BETA GLOB.	GM/DL	1.2 ±	0.8	(2)	1.480 ±	0.580	0.840	2.020	(4)
Body Temperature:		39.0 ±	0.0	(1)					
CO2	MMOL/L	27.0 ±	3.1	(840)	23.82 ±	2.41	19.00	28.00	(29)
COPPER	MCG/DL				82.50 ±	2.12	81.00	84.00	(2)
ESR	MM/HR	27 ±	0	(1)					
FIBRINOGEN	MG/DL	238 ±	139	(70)					
GGT	IU/L	12 ±	5	(389)	14.04 ±	5.18	0.000	27.00	(28)
FE SATURATN.	%				28.85 ±	0.35	28.60	29.10	(2)
LIPASE	U/L	7 ±	7	(66)					
OSMOLALITY	MOSMOL/KG				248.4 ±	9.2	235.0	262.3	(8)
PROGESTERONE	NG/DL	144.8 ±	216.4	(266)					
SELENIUM	MCG/DL				6.950 ±	0.071	6.900	7.000	(2)
TESTOSTERONE	NG/ML	1.010 ±	1.117	(2)	0.220 ±	0.000	0.220	0.220	(1)
TOTAL T4	MCG/DL	8.2 ±	1.3	(3)					
T3 (RIA)	NG/ML	209.0 ±	0.0	(1)					
ALBUMIN (E)	GM/DL	4.4 ±	0.3	(7)	3.433 ±	1.355	2.180	4.910	(4)
GAMMA GLOB	GM/DL	1.6 ±	0.4	(7)	1.833 ±	0.241	1.650	2.180	(4)